

WHAT IS CLAIMED IS:

1. A peripheral device capable of being connected to a portable communication terminal accessible to a server device on a network, said peripheral device comprising:

an interface configured to be connected to said portable communication terminal; and

an access device configured to access said server device by a circuit connection function of said portable communication terminal and download data registered in said server device by said portable communication terminal.

2. The peripheral device according to claim 1, further comprising a printer configured to print the data downloaded by said access device.

3. The peripheral device according to claim 1, wherein said downloaded data comprises one of image data and music data.

4. A printing apparatus capable of being connected to, as a peripheral device, a portable communication terminal accessible to a server device on a network, said printing apparatus comprising:

an interface configured to be connected to said portable communication terminal;

an access device configured to access said server device by a circuit connection function of said portable communication terminal and download data

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registered in said server device by said portable communication terminal; and

a printer configured to print the data downloaded by said access device.

5 5. The printing apparatus according to claim 4, wherein said interface and said access device are mounted on an adapter connecting said portable communication terminal and said printing apparatus.

10 6. The printing apparatus according to claim 4, further comprising a radio communication device configured to establish a radio communication circuit with said portable communication terminal.

15 7. A data acquisition method comprising:
connecting a portable communication terminal to a server device on a network;

registering in said server device data to be acquired by a peripheral device connected to said portable communication terminal which is selected among from browsable data provided by said server device and
20 disconnecting said portable communication terminal from said server device;

connecting said portable communication terminal to said server device by a peripheral device when the peripheral device is connected to said portable
25 communication terminal, using a circuit connection function of the portable communication terminal; and

downloading data registered in said server device

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to said peripheral device.

8. The data acquisition method according to claim 7, wherein said downloaded data is printed by said peripheral device.

5 9. The data acquisition method according to claim 7, further comprising:

storing browsable data at said server device;

requesting edition of the browsable data by said peripheral device; and

10 editing the browsable data by said server device, the edited data being registered by the peripheral device.

10. The data acquisition method according to claim 7, wherein said downloaded data comprises one of
15 image data and music data.

11. A print support method comprising:

receiving printer identification information for identifying a printer connected to a portable communication terminal from the portable communication terminal via a network;
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acquiring data targeted for printing specified by said portable communication terminal;

generating print data for printing said acquired data targeted for printing by said printer based on
25 said printer identification information and said acquired data targeted for printing; and

transmitting said generated print data to said

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portable communication terminal via said network.

12. The print support method according to claim 11, further comprising receiving printing condition for printing data targeted for printing from said portable communication terminal via said network and changing said data targeted for printing based on the received printing condition,

wherein, at said generating, print data for printing said changed data targeted for printing by said printer is generated based on said printer identification information and said changed data targeted for printing.

13. The print support method according to claim 11, wherein said printing condition comprises a size of a printing medium used for printing said data targeted for printing by said printer.

14. The print support method according to claim 11, wherein said printing condition comprises a condition concerning a format when said data targeted for printing is printed by said printer.

15. The print support method according to claim 11, wherein said data targeted for printing is image data, and said generating comprises:

changing the number of pixels of said image data based on the printing condition; and

generating said print data from said image data of which the number of pixels is changed.

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16. The print support method according to claim 11, further comprising initiating a printer driver corresponding to a printer specified by said printer identification information and wherein said generating is executed by said activated printer driver.

17. The print support method according to claim 11, wherein said portable communication terminal and said printer communicate with each other via a wireless communication line.

18. The print support method according to claim 11, wherein said printer is provided at a charger for charging a secondary battery of said portable communication terminal.

19. A print support method comprising:
receiving printer identification information for identifying a printer connected to a portable communication terminal and printing condition for printing data target for printing data targeted for printing from the portable communication terminal via a network;

acquiring said data targeted for printing;
changing said data targeted for printing based on the received printing condition; and

transmitting a printer driver corresponding to [a printer specified by] said printer identification information and said changed data targeted for printing

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to said portable communication terminal via said network.

20. A print support system comprising:

a data processing unit for a print support;

5 at least one portable communication terminal connected to said data processing unit via a network; and

a printer connected to said portable communication terminal, wherein said portable communication terminal comprises:

10 a transmitter which transmits printer identification information for identifying said printer to said data processing unit; and

15 a device which notifies said data processing unit of data targeted for printing and printing condition, said data processing unit comprises:

a device which acquires said data targeted for printing notified by said portable communication terminal;

20 a device which changes said acquired data targeted for printing in accordance with said printing condition notified by said portable communication terminal;

a device which generates print data for printing said changed data targeted for printing by said printer based on said changed data targeted for printing and said printer identification information; and

25 a transmitter which transmits the generated print

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data to said portable communication terminal via said network, and said portable communication terminal further comprises:

5 a transmitter which transmits said generated print data to said printer.

21. A print support system comprising:

10 a data processing unit for a print support;
at least one portable communication terminal connected to said data processing unit via a network;
and

a printer connected to said portable communication terminal, wherein said portable communication terminal comprises:

15 a transmitter which transmits printer identification information for identifying said printer to said data processing unit; and

a device which notifies said data processing unit of data targeted for printing and printing condition, said data processing unit comprises:

20 a device which acquires said data targeted for printing notified by said portable communication terminal;

25 a device which changes said acquired data targeted for printing in accordance with said printing condition notified by said portable communication terminal;

a transmitter which transmits a printer driver corresponding to a printer specified by said printer

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identification information and said changed data targeted for printing to said portable communication terminal via said network, and said portable communication terminal further comprises:

5 receiver which receives said printer driver and said changed data targeted for printing transmitted from said data processing unit;

a memory which stores the received printer driver and said changed data targeted for printing

10 a device which generates print data for printing said stored changed data targeted for printing by said printer based on said stored changed data targeted for printing by means of said stored printer driver; and

15 a transmitter which transmits said generated print data to said printer.

22. A portable communication terminal capable of accessing to a server device on a network and downloading data provided by said server device, said portable communication terminal comprising:

20 an interface for connecting an external device;

an acquisition device which acquires from said server device, a data processing program that corresponds to the external device connected to said interface; and

25 a transfer device which processes data downloaded from said server device by means of the data processing program acquired by said acquisition means and

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transmits the processed data to said external device connected to said interface.

23. The portable communication terminal according to claim 22, wherein said external device comprises
5 a printer and said data processing program comprises a printer driver which converts the data downloaded from said server device into print data that can be printed by said printing apparatus.

24. The portable communication terminal according
10 to claim 22, further comprising:

a device which notifies said server device of identification information for identifying said printer and printing condition; and

a receiver which receives a printer driver stored
15 in said server device and corresponding to the printer specified by said identification information and data targeted for printing after changed in accordance with an operation of said printer driver based on the notified print condition, and wherein said transfer
20 device converts changed data targeted for printing received by said receiver into print data by the printer driver received by said receiver.

25. The portable communication terminal according to claim 22, further comprising:

25 a transmitter which transmits identification information for identifying said printer to said server device;

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a receiver which receives data targeted for printing and a printer driver corresponding to the printer specified by said identification information as the data provided by said server device; and

5 a device which specifies a printing condition, and wherein said transfer device changes said data targeted for printing based on the printing condition prior to converting said data targeted for printing into print data by the printer driver received by the receiver.

10 26. The portable communication terminal according to claim 22, wherein said downloaded data comprises one of image data and music data.

27. A data acquisition method for accessing to a server device on a network by a portable communication terminal and acquiring data provided by said server device by the portable communication terminal, said method comprising:

15 acquiring the data provided by said server device; acquiring a data processing program that corresponds to an external device connected to said portable communication terminal from said server device; and

20 processing data provided by said server device by means of the data processing program, and transferring the processed data to the external device connected to said portable communication terminal.

28. The data acquisition method according to

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claim 27, further comprising:

downloading from said server device a detection program for detecting type of said external device prior to downloading said data processing program;

5 detecting type of the external device connected to said portable communication terminal by means of said detection program; and

downloading said data processing program from said server device based on the type of said external device.

29. The data acquisition method according to claim 27, wherein said external device comprises a printer and said data processing program comprises a printer driver for converting the data downloaded from said server device into print data that can be printed by said printer.

30. The data acquisition method according to claim 29, further comprising:

transmitting identification information for identifying the printer to said server device;

notifying said server device of a printing condition; and

acquiring from said server device, data targeted for printing after processed based on said printing condition by means of an printer driver stored in said server device and corresponding to the printer specified by said identification information.

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31. The data acquisition method according to claim 27, wherein said downloaded data comprises one of image data and music data.

32. A printing method for printing data provided
5 by a server device on a network by a printing apparatus connected to a portable communication terminal for accessing to the server device via said network, said printing method comprising:

10 downloading a printer driver that corresponds to said printing apparatus from said server device;

changing by said printer driver the data provided by said server device to print data that can be printed by said printing apparatus; and

15 printing said print data by said printing apparatus.

33. The printing method according to claim 32, further comprising:

20 transmitting identification information for identifying said printing apparatus to said server device;

notifying said server device of printing condition;

25 receiving a printer driver stored in said server device and corresponding to the printing apparatus specified by said identification information and data targeted for printing after modified by said printer driver based on the printing condition; and

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changing the received, modified data targeted for printing into print data by said received printer driver.

34. The printing method according to claim 32,
5 further comprising:

transmitting identification information for identifying said printing apparatus to said server device;

10 receiving data targeted for printing and the printer driver stored in said server device and corresponding to the printing apparatus specified by said identification information as the data provided by said server device;

specifying a printing condition; and

15 modifying said data targeted for printing based on said printing condition prior to converting said data targeted for printing into print data by said received printer driver.

35. The printing method according to claim 32,
20 wherein said portable communication terminal and said printer communicates with each other via a wireless communication line.

36. The printing method according to claim 32,
25 wherein said printer is provided at a charger for charging a secondary battery of said portable communication terminal.

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